

ABSTRACT

5 A power-assisted steering system includes a gear mechanism, coupled to a steering
column, with a gear and a mating gear. The two transmission gears have teeth (4, 5) via which
they engage with each other, movement and power being transmitted from one gear to the other
gear via effective profiles of their tooth faces (11, 12). In order to provide a gear mechanism that
has an enhanced load-bearing capacity and at the same time can be manufactured in a simple and
10 economical way, the effective profiles of the tooth faces (11, 12) of the gear and the mating gear
contact over the height (h_4 , h_5) of the teeth (4, 5).